CLAIMS

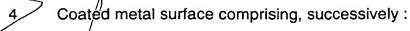
- 1 Coated metal surface comprising, successively:
- a layer (1) of epoxy primer placed next to the metal,
 - a layer (2) of binder comprising 98 to 50 parts by weight of at least one fluoropolymer L3 per 2 to 50 parts, respectively, of at least one polymer chosen from acrylic polymers L1 and polymers L2 which are fluoropolymers chemically modified by a partial dehydrofluorination followed by an oxidation,
 - a layer (3) of fluoropolymer.

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- 2 Coated metal surface comprising, successively :
- a layer (1) of epoxy primer placed next to the metal,
- a layer (2) of binder comprising 98 to 50 parts by weight of at least one fluoropolymer L3 per 2 to 50 parts, respectively, of at least one polymer chosen from acrylic polymers L1 and polymers L2 which are fluoropolymers chemically modified by a partial dehydrofluorination followed by an oxidation.
 - 3 Coated metal surface which is the outer surface of tubes, comprising, successively:
 - a layer (2) of binder placed next to the metal and comprising 98 to 50 parts by weight of at least one fluoropolymer L3 per 2 to 50 parts, respectively, of a mixture comprising at least one polymer chosen from the polymers L2 which are fluoropolymers chemically modified by a partial dehydrofluorination followed by an oxidation, and optionally at least one polymer chosen from acrylic polymers L1,
- a layer (3) of fluoropolymer.



a layer (1) of primer placed next to the metal and comprising 1 to 70 parts of a polymer chosen from polymers L2 which are fluoropolymers chemically modified by a partial dehydrofluorination followed by an oxidation, per 30 to 99 parts, respectively, of an epoxy primer,

• a layer (3) of fluoropolymer.

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5 Coated metal surface according to any one of Claims 1 to 4, in which the epoxy primer is the product of the reaction of a thermosetting epoxy resin and of a hardener.

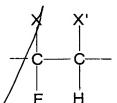
6 Coated metal surface according to Claim 5, in which the gel time defined by Afnor standard NFA 49-706 is advantageously between 20 and 60 seconds.

Coated metal surface according to Claim 5 or 6, in which the Tg of the epoxy primer is greater than 120°C.

8 Coated metal surface according to any one of Claims 1 to 3, in which the acrylic polymer L1 is a copolymer of methyl methacrylate and of acrylic acid.

9 Coated metal surface according to any one of Claims 1 to 3, in which the Tg of the acrylic polymer L1 is greater than or equal to 120°C.

10 Coated metal surface according to any one of Claims 1 to 4, in which the polymer which is chemically modified to obtain L2 is a fluoroplastic or a fluoroelastomer which contains units of general formula (I):



(1)

in which X and X' may be, independently of each other, a hydrogen atom, a halogen, in particular fluorine or chlorine, or a perhaloalkyl, in particular perfluoróalkyl.

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Coated metal surface according to Claim 10, in which the 11 oxidation to prepare L2 is obtained in heterogeneous aqueous medium with hydrogen peroxide (H2O2) or with the hypochlorite anion (CIO).

copolymers.

Coated metal surface according to any one of claims 1 to 3, in which the fluoropolymer L3 is chosen from PVDF homopolymer and VF2-HFP

Coated metal surface according to any one of Claims 1 to 3, in 13 which the melting point of L3 is greater than 150°C.

Coated metal surface according to any one of Claims 1, 3 and 4, 14 in which the fluoropolymer of the layer (3) is PVDF homopolymer or a VF2-HFP copolymer having a melting point of at least 165°C.

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Product according to any one of Claims 1, 2 and 4, in which the 15 surface is the outer surface of tubes.